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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,571	05/16/2005	Takuhiro Kondo	Got 202NP	5502
23995 RABIN & Ber	7590 09/19/2007 do PC		EXAM	INER
1101 14TH STREET, NW			NGUYEN, VU Q	
SUITE 500 WASHINGTO	N, DC 20005		ART UNIT	PAPER NUMBER
	,		3683	
			MAIL DATE	DELIVERY MODE
			09/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/516,571	KONDO ET AL.			
		Examiner	Art Unit			
		Vu Q. Nguyen	3683			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence address			
A SH WHIC - Exte - after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAINS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO , cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 13 Ju	<u>ine 2007</u> .				
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,4,6 and 8 is/are pending in the appl 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,4,6 and 8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	vn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>13 June 2007</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	l⊠ accepted or b)⊡ ob drawing(s) be held in abeya ion is required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No en received in this National Stage			
Attachmer	nt(s)					
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application			

DETAILED ACTION

Amendment

1. Applicant's submittal of an amendment on 06/13/2007 was entered, wherein:

Claims 1, 4, 6, and 8 pending and

Claims 1, 4, and 6 have been amended and

Claims 2, 3, 5, and 7 have been cancelled.

Claim Objections

2. Claims 1, 4, 6, and 8 are objected to because of the following informalities:

In claim 1, "the under surface", "the maximum descent position", "the top surface", and "the maximum ascent position" should be --an under surface--, --a maximum descent position--, --a top surface--, and --a maximum ascent position-- respectively, to avoid lack of antecedent basis issues.

Appropriate correction is required.

which applicant regards as the invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly

claiming the subject matter which the applicant regards as his invention.

4. Claims 1, 4, 6, and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter

Claim 1 recites the limitation "a first cushion member is installed at a lower end of the screw shaft which comes into contact with the ball nut". It is unclear what comes into contact with the ball nut — the first cushion member or the lower end of the screw shaft?

Claim 1 recites the limitation "a second cushion member is installed at a lower end of the bearing which comes into contact with the ball nut". It is unclear what comes into contact with the ball nut — the second cushion member or the lower end of the bearing?

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1, 6, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Patent Document JP 9-327149 (JP '149).

Regarding claim 1, JP '149 discloses an electromagnetic shock absorber comprising: a shock absorber body (6, 12) which makes telescopic motion in response to an input from outside; a ball screw mechanism (10, 11) which is arranged at the shock absorber body, converts the telescopic motion into rotary motion, and is composed of a ball nut (11) and a screw shaft (10); a motor (1) which is provided coaxially with the shock absorber body and generates electromagnetic resistance to

oppose against the rotary motion to be input into a rotary shaft (1a) of the motor; and a cylindrical member (6, 18) which covers the shock absorber body and the motor from outside and whose part to cover the motor also serves as a motor frame; wherein: the shock absorber body has an external cylinder (6) and an internal cylinder (12) to be slidably inserted into the external cylinder; an upper part (18) of the external cylinder extends (see arguments below) so as to cover the motor, and the frame of the motor is formed at an extended part (18) of the external cylinder; the cylindrical member is constituted by (interpreted as "a part of"; see arguments below) the external cylinder; the ball nut of the ball screw mechanism is fixed to an upper part of the internal cylinder (by means of element 13) and a screw shaft to be spirally engaged with the ball nut is connected with the rotary shaft of the motor; an outer circumference of the internal cylinder is slidably supported by a bush (14) installed at an inner circumference of a lower end of the external cylinder; a halfway point of the screw shaft is rotatably supported through bearings (15) installed inside the external cylinder; a first cushion member (21) is installed at a lower end of the screw shaft which comes into contact with the ball nut from an under surface when the internal cylinder makes a stroke up to a maximum descent position; and a second cushion member (20) is installed at a lower end of the bearing which comes into contact with the ball nut from a top surface when the internal cylinder makes a stroke up to a maximum ascent position.

Regarding claim 6, see planetary gear mechanism 50.

Regarding claim 8, see elements 18 and 6 having a same diameter.

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Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Document JP 9-327149 (JP '149) in view of U.S. Patent No. 5070284 (Patil et al.).

JP '149 discloses an electromagnetic shock absorber as applied to claims 1, 6, and 8 above.

JP '149 does not disclose expressly that the rotary shaft of the motor is rotatably supported at its both ends by a pair of bearings installed at the external cylinder.

Patil et al. disclose an electromagnetic shock absorber (100), wherein a rotary shaft (carried by upper end of screw shaft 112; column 5, lines 11-24) of a motor (104) is rotatably supported at its both ends by a pair of bearings (114).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the electromagnetic shock absorber as taught by JP '149 to include bearings at both ends of the rotary shaft of the motor as taught by Patil et al. The suggestion/motivation for doing so would have been to provide support and guidance, as is well-known in the art, for the rotary shaft of the motor.

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Response to Arguments

9. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

10. However, some of Applicant's arguments may still be pertinent to the new ground(s) of rejection. On page 7, Applicant argues that when the claim recites that "the external cylinder extends so as to cover the motor," it does not mean that a new cylinder is attached. Applicant further argues that an extended cylinder is a cylinder that is longer. The Examiner respectfully disagrees. It appears that Applicant is arguing that the external cylinder and the extended part of the external cylinder (which covers the motor and serves as a motor frame) must be integral. However, this feature upon which Applicant relies is not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Therefore, upon making the broadest reasonable interpretation, the Examiner respectfully submits that the recitation of "the external cylinder extends so as to cover the motor" does not preclude a multi-piece structure, and as long as the separate piece(s) is/are connected with the external cylinder to cover the motor, the limitation of the external cylinder "extending" has been met.

Claim 1 also recites the limitation "the cylindrical member is constituted by the external cylinder". Similarly, upon making the broadest reasonable interpretation, the Examiner respectfully submits that this limitation does not preclude a multi-piece structure either. The Examiner has interpreted the limitation to mean that the external

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cylinder is a part of the cylindrical member (which covers the shock absorber body and the motor). The limitation does not recite whether or not the external cylinder is an integral part of the cylindrical member or a separate part of the cylindrical member, and thus, as long as the external cylinder is part of a cylindrical structure that covers the shock absorber body and the motor, the limitation has been met.

Therefore, in view of the above arguments, the Examiner respectfully submits that JP '149 discloses all the features of at least claim 1, as set forth in the rejection above.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: U.S. Patent No. 3559027.
- 12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu Q. Nguyen whose telephone number is (571) 272-7921. The examiner can normally be reached on Monday through Friday, 11:30 AM to 8:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on (571) 272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VQN